

I Claim:

~~Sub H 1~~ 1. Apparatus adapted for a user to control a computer comprising:

5 display means connected to the computer for displaying objects on a screen;

glove means adapted to be worn on a hand of the user, the glove means including gesture sensing means coupled to the glove means for detecting flexure of fingers of the user's hand and position sensing means couple to the glove means for detecting position of the hand with respect to the display means; and

15 interface means for coupling the glove means to the display means to control the display means in response to the flexure of fingers and the position of the hand.

20 2. Apparatus as in Claim 1 wherein the position sensing means comprises transmitting means affixed to the glove for transmitting signals to receiving means disposed about the display means.

25 3. Apparatus as in Claim 2 wherein the gesture sensing means further comprises flexure sensors affixed to the glove means to detect the extent of bending of the fingers of the user.

30 4. Apparatus as in Claim 2 wherein the transmitting means transmits ultrasonic signals.

5. Apparatus as in Claim 4 wherein the receiving means comprises a plurality of receivers of ultrasonic signals disposed about the screen.

Claims  
35 ~~Sub H 2~~ 6. Apparatus as in Claim 5 wherein the plurality is three and the three receivers are not linearly arranged.

20

7. Apparatus as in Claim 5 wherein the interface means includes circuitry coupled to the flexure sensors and to the plurality of receivers.

5

~~8. Apparatus as in Claim 1 wherein the display means is adapted to display a representation of a hand which mirrors the position and flexure of fingers of the user's hand.~~

10

~~9. Apparatus as in Claim 4 wherein the transmitting means comprises a plurality of transmitters.~~

15

6. 10. Apparatus as in Claim 1 wherein the interface means includes a cable connecting the glove means to the computer.

20

11. Apparatus as in Claim 1 wherein the interface means includes an electromagnetic transmitter connecting the glove means to the computer.

25

12. Apparatus as in Claim 1 wherein the interface means includes an optical transmitter/receiver connecting the glove means to the computer.

30

add  
C5  
add  
E16

35

Claims 13-34